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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/511,641	10/18/2004	Shaily Verma	PU020133	6426
24-98 06-68/2009 Thomson Licensing LLC P.O. Box 5312 Two Independence Way PRINCETION, NJ 08543-5312			EXAMINER	
			BRANDT, CHRISTOPHER M	
			ART UNIT	PAPER NUMBER
			2617	
			MAIL DATE	DELIVERY MODE

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/511,641 VERMA ET AL. Office Action Summary Examiner Art Unit CHRISTOPHER M. BRANDT 2617 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 04 February 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-15 is/are pending in the application. 4a) Of the above claim(s) _____ is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-15 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 18 October 2004 is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.

1) Notice of References Cited (PTO-892)

Paper No(s)/Mail Date 2/4/09

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

Attachment(s)

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

Art Unit: 2617

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on February 4, 2009 has been entered.

Response to Amendment

This Action is in response to applicant's amendment/arguments filed on February 4, 2009. Claims 1-15 are still currently pending in the present application.

Response to Arguments

Applicant's arguments with respect to claims 1-15 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point

Art Unit: 2617

out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a),

The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1-6, 8-13, and 15 are rejected under 35 USC 103(a) as being unpatentable over Kallio (US PGPUB 2002/0147008 A1) in view of Ludwig (US Patent 6,256,498 B1) and further in view of Hamilton et al. (US PGPUB 2002/0177431 A1, hereinafter Hamilton).

Consider claim 1 (and similarly applied to claims 8 and 13). Kallio discloses a wireless Local Area Network (WLAN) (paragraph 28), comprising:

an access point for communicating with a plurality of mobile stations (figure 1, paragraphs 10, 29, read as the WMC is arranged to serve as a WLAN access point); and

an interworking function, coupled between the access point and a selected GSM network, via an interface gate, the interworking function enabling communications between the selected GSM and the WLAN wherein the WLAN appears as another GSM to the selected GSM (paragraph 28, read as a Mobile Transaction Server (MTS) 220 and a hotspot LAN 230 that are connected to the GSM network 100, via a A-interface gate (AGW) 310).

Art Unit: 2617

Kallio substantially discloses the claimed invention except he fails to teach Public Land Mobile Network (PLMN) and an inter-PLMN backbone.

However, Ludwig discloses a Public Land Mobile Network (PLMN) and an inter-PLMN backbone (column 5 lines 57-60, column 6 lines 23-29, read as the inter-PLMN backbone network is the IP network interconnecting GSN support nodes and intra-PLMN backbone networks in different public land mobile networks).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Ludwig into the invention of Kallio in order to integrate WWW services into a digital cellular communication network and also to provide the functionality of the Gn interface plus security functionality required for inter-PLMN communication (column 10 lines 27-37).

In addition, Kallio and Ludwig fail to explicitly teach wherein the interworking function enables communications with a Serving General Packet Radio Service Support Node (SGSN) of the selected PLMN.

However, Hamilton teaches wherein the interworking function enables communications with a Serving General Packet Radio Service Support Node (SGSN) of the selected PLMN (paragraph 40, read as the border gateway extends the GPRS backbone network that are physically located in different PLMNs. One can observe from figure 1 that the border gateway is located between a base station subsystem (i.e. access point) and the PLMN).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have incorporated the teachings of Hamilton into the invention of Kallio

Art Unit: 2617

and Ludwig in order to more optimally provide a bearer service for packet switched data (paragraph 3).

Consider claim 2 and as applied to claim 1. Kallio and Ludwig disclose wherein the interworking function enables communications with the selected PLMN using the Gp interface (Ludwig; column 6 lines 17-29).

Consider claim 3 and as applied to claim 2. Kallio and Ludwig disclose wherein the interworking function performs the functions of a logical Serving General Packet Radio Service (GPRS) Support Node (SGSN) (Ludwig; column 6 lines 7-29).

Consider claim 4 and as applied to claim 3. Kallio and Ludwig disclose wherein the interworking function is viewed by the selected PLMN as an SGSN in another UMTS/GPRS PLMN (Ludwig; column 6 lines 7-29).

Consider claim 5 and as applied to claim 1. Kallio and Ludwig disclose wherein the selected PLMN includes Session Management/GPRS mobility management (SM/GMM) procedures, which are reused in the WLAN by the use of an adaptation layer in a mobile dual-protocol stack and in the IWF to WLAN interface to mimic the functionality of a Radio Resource Control (RRC) protocol sub-layer (Kallio; paragraph 30, Ludwig; column 6 lines 6-16).

Consider claim 6 and as applied to claim 1. Kallio and Ludwig disclose wherein the interworking function utilizes a GPRS tunneling protocol between a GGSN and the interworking function for downlink traffic coming from the GGSN to reduce UMTS traffic, and provides a common Internet access to all users for all other traffic to reduce the traffic between the interworking function and the GGSN (Kallio; paragraph 23, Ludwig; column 5 lines 40-47).

Art Unit: 2617

Consider claim 9 and as applied to claim 8. Kallio and Ludwig disclose wherein the providing step comprises providing an interworking function that communicates between the selected PLMN and the WLAN using the Gp interface (Kallio; paragraph 28, Ludwig; column 6 lines 17-29).

Consider claim 10 and as applied to claim 8. Kallio and Ludwig disclose wherein the providing step comprises providing an interworking function that mimics the functions of a Serving General Packet Radio Service (GPRS) Support Node (SGSN) (Ludwig; column 6 liens 7-29).

Consider claim 11 and as applied to claim 8. Kallio and Ludwig disclose further comprising utilizing a GPRS tunneling protocol between a GGSN and the interworking function for downlink traffic coming from the GGSN to reduce traffic on the selected PLMN (Kallio; paragraph 23, Ludwig; column 5 lines 40-47).

Consider claim 12 and as applied to claim 8. Kallio and Ludwig disclose further comprising an adaptation layer in a mobile dual-protocol stack in the interworking to WLAN interface to mimic the functionality of a Radio Resource Control (RRC) protocol sub-layer, whereby the session management/GPRS mobility management (SM/GMM) procedures are reused in the WLAN (Kallio; paragraph 30, Ludwig; column 6 lines 6-16).

Consider claim 15 and as applied to claim 13. Kallio and Ludwig disclose further comprising the step of providing an interworking function that mimics the functions of a Serving GPRS Support Node (SGSN) such that the WLAN appears as another PLMN to the selected PLMN (Kallio; paragraph 35, Ludwig; column 6 liens 7-29).

Art Unit: 2617

Claims 7, 14 are rejected under 35 USC 103(a) as being unpatentable over Kallio (US PGPUB 2002/0147008 A1) in view of Ludwig (US Patent 6,256,498 B1) in view of Hamilton et al. (US PGPUB 2002/0177431 A1. hereinafter Hamilton) and further in view of Rune (US

Patent 6,212,390 B1).

Consider claims 7 and 14 and as applied to claim 1 and 13, respectively. Kallio,

Ludwig, and Hamilton disclose the claimed invention except they fail to explicitly disclose

wherein the selected PLMN comprises a Universal Mobile Telecommunications System (UMTS)

network.

However, Rune discloses wherein the selected PLMN comprises a Universal Mobile

Telecommunications System (UMTS) network (column 1 lines 55-65).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the

invention was made to have incorporated the teachings of Rune into the invention of Kallio,

Ludwig, and Hamilton in order to support all the current wired and wireless technology offer and

have the ability to support new applications that are common to both, or unique to UMTS

(column 1 lines 46-54).

Conclusion

Any response to this Office Action should be faxed to (571) 273-8300 or mailed to:

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Art Unit: 2617

Hand-delivered responses should be brought to

Customer Service Window Randolph Building 401 Dulany Street Alexandria, VA 22314

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Brandt whose telephone number is (571) 270-1098.

The examiner can normally be reached on 7:30a.m. to 5p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, George Eng can be reached on (571) 272-7495. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/511,641 Page 9

Art Unit: 2617

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist/customer service whose telephone number is (571) 272-2600.

Christopher M. Brandt

C.M.B./cmb

June 6, 2009

/George Eng/

Supervisory Patent Examiner, Art Unit 2617